

Electricity Notes:

- Electrostatics \rightarrow stationary charge
- Electrodynamics \rightarrow moving charge
 - Charge has to have a path to flow \rightarrow complete path
 - Has to be an electric potential source in the path

• Circuit Parts:

 Resistor

 Battery

 Open Switch

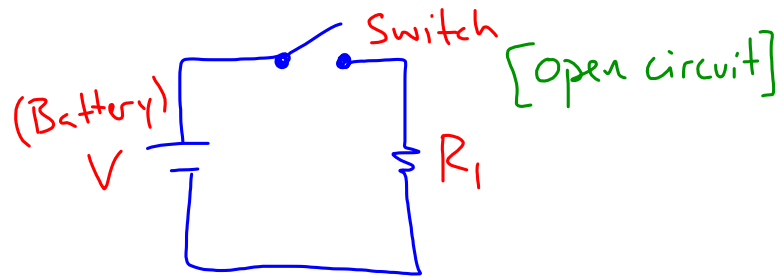
 Closed Switch

 Wire

 Light Bulb

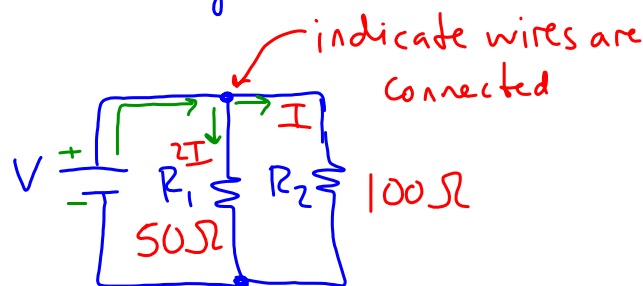
- Safety:
 - Moving e^- create thermal energy
 - This can result in fire
 - Devices to limit current:
 - Fuse
 - Circuit breaker

- Schematics (Circuit Drawings):



- Resistors control current
- Series Circuit \rightarrow one pathway for e^- to flow
 - Current is SAME for all pieces
 - Voltage is different

- Parallel Circuit \rightarrow multiple pathways
 - Current different for different branches
 - Voltage SAME for branches



- Current flows from + to -
- e^- go from - to +

- Practice Drawings (p. 31):

